

Dataset Identification & Citation:

DataCite and EZID

Laine Farley

Executive Director

California Digital Library

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Dataset Identification & Citation

Life before DataCite

The research data problem Each repository is an island...

A life cycle approach

DataCite

"Helping you find, access and reuse data."

EZID

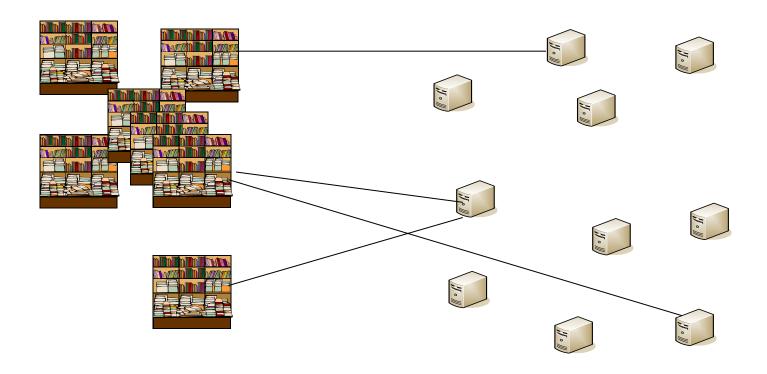
Easy creation and management of DataCite DOIs and other identifiers.

Next steps

The research data problem

Journal Articles	Research Data
Uniquely and persistently identified	Nope
Concept of "publish"	Not really
Multiple copies	Typically one
Easily findable	Difficult
Additional services: impact metrics, citation tracking, etc.	Nope
	➤ Second-class citizens in scholarly record

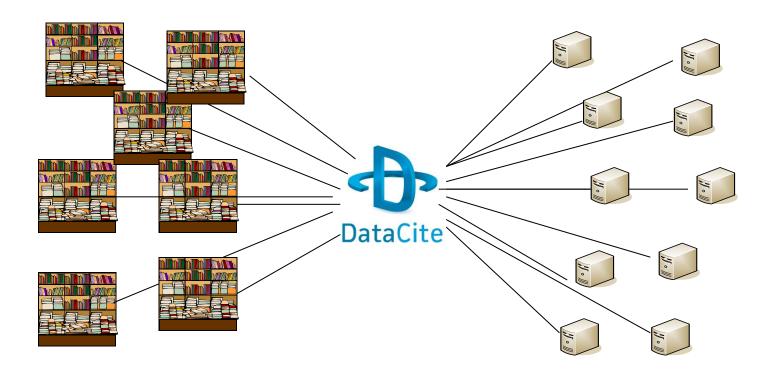
Before DataCite...



Publishers

Data centers and Repositories

With DataCite...



Publishers

Data centers and Repositories

DataCite

Creating a global citation framework for data

DataCite

German National Library of Economics (ZBW)

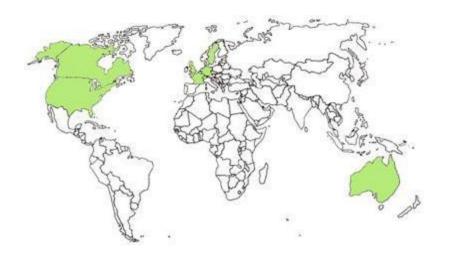
German National Library of Science and Technology (TIB)

German National Library of Medicine (ZB MED)

GESIS - Leibniz Institute for the Social Sciences, Germany

Australian National Data Service (ANDS)

ETH Zurich, Switzerland



Canada Institute for Scientific and Technical Information (CISTI)

Technical Information Center of Denmark

Institute for Scientific & Technical Information (INIST-

CNRS), France

TU Delft Library, The Netherlands

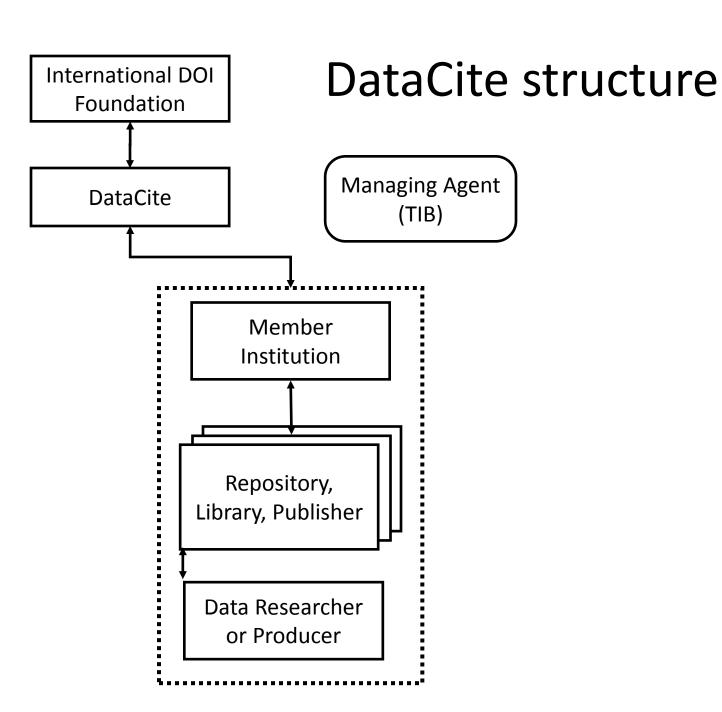
The Swedish National Data Service (SNDS)

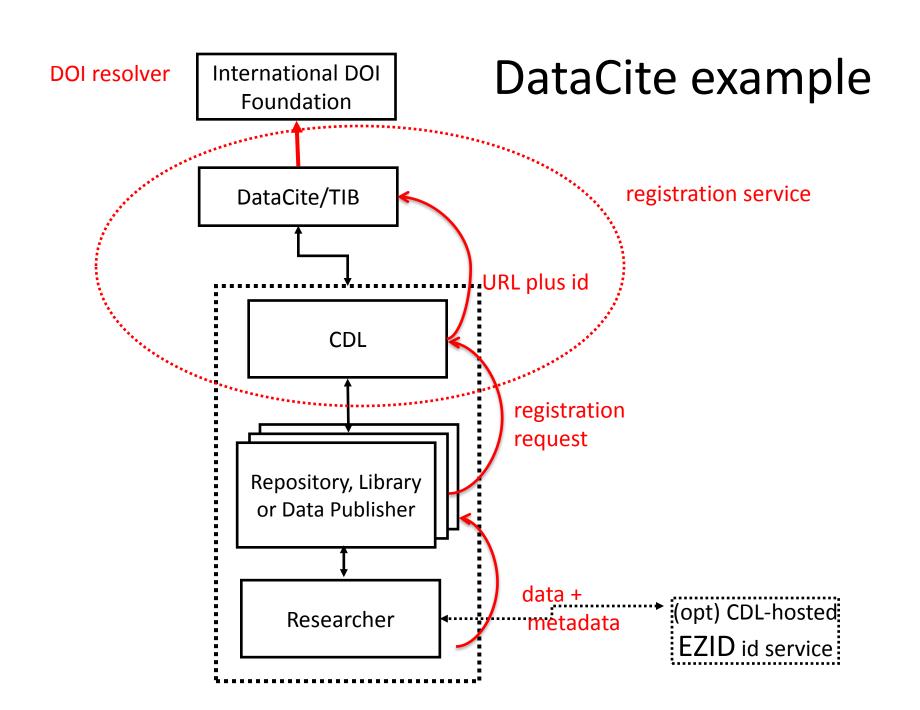
The British Library, UK

California Digital Library (CDL), USA

Office of Scientific & Technical Information (OSTI), USA

Purdue University Library, USA





A life cycle approach

CDL Curation and Publishing Services

http://www.cdlib.org

Create, edit, share, and save data management plans



Open source add-in for Microsoft Excel as a data collection tool



Create and manage persistent identifiers



Curation repository: store, manage, and share research data



Open access scholarly publishing services: papers, journals, books, seminars & more



An infrastructure to publish and get credit for sharing research data





- Get identifiers
- Add location
- Add metadata
- Update location
- Update metadata

take control of the management and distribution of your research, share and get credit for it, and build your reputation through its collection and documentation

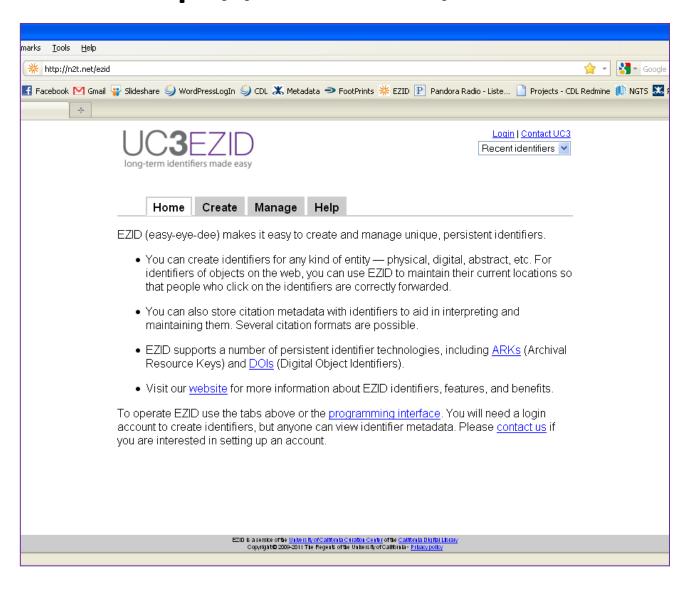
DataCite Metadata V. 2.2

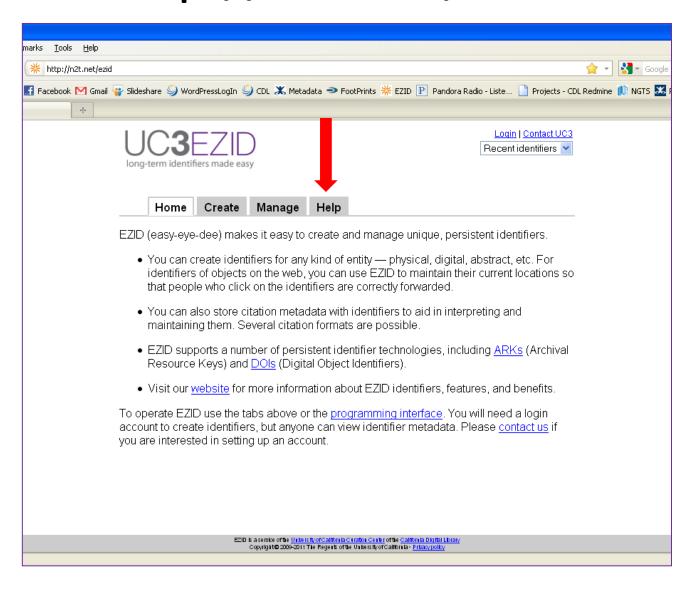
Required properties

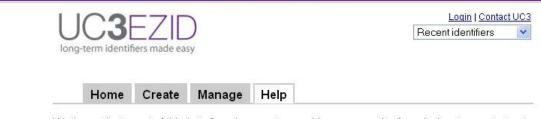
- **1. Identifier** (with type attribute)
- **2. Creator** (with name identifier attributes)
- **3. Title** (with optional type attribute)
- 4. Publisher
- 5. PublicationYear

Optional properties

- 6. Subject (with schema attribute)
- 7. Contributor (with type & name identifier attributes)
- 8. Date (with type attribute)
- 9. Language
- ResourceType (with description attribute)
- 11. AlternateIdentifier (with type attribute)
- 12. RelatedIdentifier (with type &relation type attributes)
- 13. Size
- 14. Format
- 15. Version
- 16. Rights
- 17. Description (with type attribute)







We hope that most of this interface is easy to use. You can use the form below to create test identifiers exactly as you would under the Create tab. Test identifiers are the same as long-term identifiers except they are deleted after 72 hours.

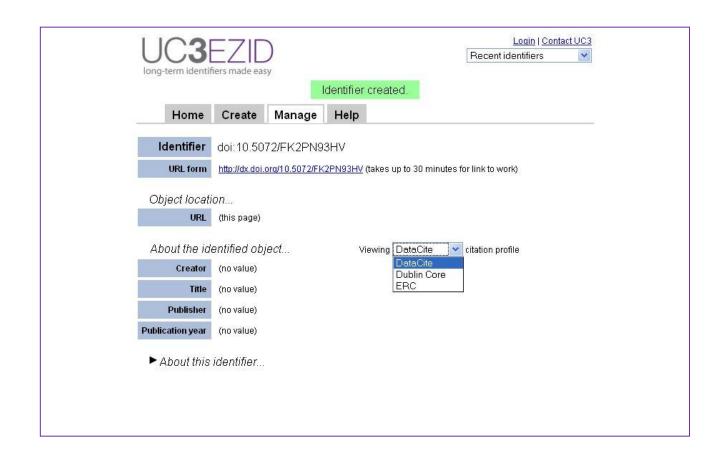
Clicking the Create button below (leaving the Remainder blank) will generate a preservation-ready test identifier for you.

Namespace	Identifier		
Ivalliespace	Prefix	Remainder	
ARK Test	ark:/99999/fk4		
DOI Test	doi:10.5072/FK2		Create

A namespace is the set of all possible identifiers that begin with a certain prefix, such as ark:/99999/fk4.... EZID always supplies the prefix, and usually the remainder as well. We strongly advise letting EZID generate the identifier for you. This way it will be short, opaque, globally unique, and transcription-safe (EZID adds a "check character").

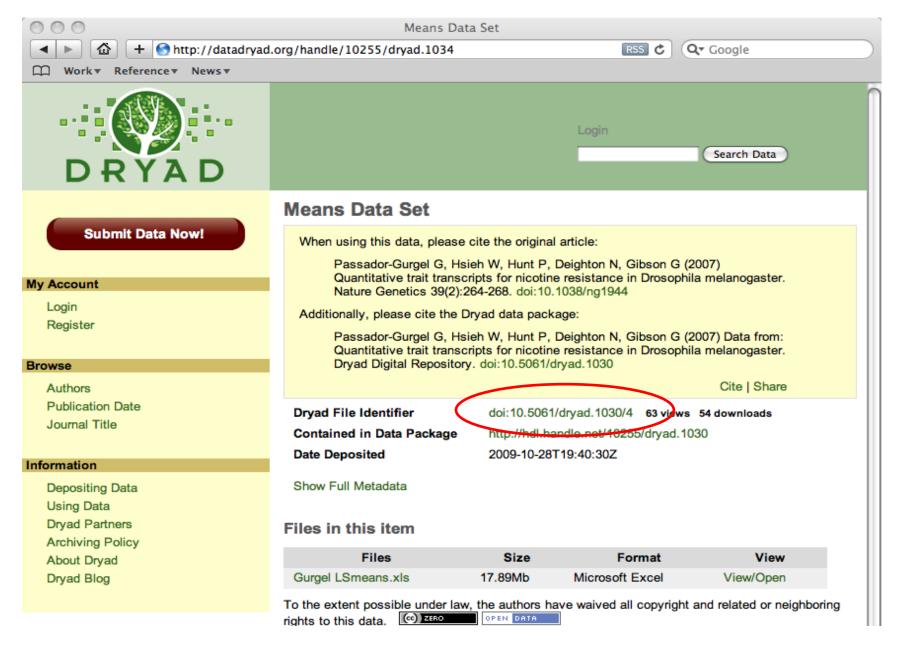
On the Manage tab, you can add metadata ("data about data") for an identified object. Editable fields change color to yellow as you mouse over them. The "URL" field stores the current location of the identified object. When you first create your identifier, EZID supplies a default value for this field, namely the URL of the Manage tab for that identifier. We recommend that you replace this with the actual current location of the object.

On the right is a pull-down for selecting a "citation profile." The profile determines the metadata elements you can complete for the identifier. Depending on the type of identifier you create, EZID will select the appropriate profile as the default. At present there is no automatic mapping between profiles.

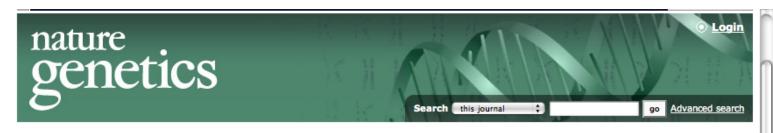


UC3	Login Contact UC3 Recent identifiers ✓	
Home	Create Manage Help	
Identifier	doi:10.5072/FK2PN93HV	
URL form	http://dx.doi.org/10.5072/FK2PN93HV (takes up to 30 minutes for link to work)	
Object locati	ion	
URL	Save Cancel	
About the id	lentified object Viewing DataCite ✓ citation profile	
Creator	Save Cancel	
Title	Save Cancel	
Publisher	(no value)	
Publication year	(no value)	
► About this	identifier	

What this means...



What this means...



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Letter

Nature Genetics **39**, 264 - 268 (2007) Published online: 21 January 2007 | doi:10.1038/ng1944

Quantitative trait transcripts for nicotine resistance in *Drosophila melanogaster*

Gisele Passador-Gurgel $^{\underline{1}}$, Wen-Ping Hsieh $^{\underline{2}}$, Priscilla Hunt $^{\underline{1}}$, Nigel Deighton $^{\underline{3}}$ & Greg Gibson $^{\underline{1}}$

Although most genetic association studies are performed with the intention of detecting nucleotide polymorphisms that are correlated with a complex trait, transcript abundance should also be expected to associate with diseases or phenotypes. We performed a scan for such quantitative trait transcripts in adult female heads of the fruit fly (Drosophila melanogaster) that might explain variation for nicotine resistance. The strongest association was seen for abundance of ornithine aminotransferase transcripts, implicating detoxification and neurotransmitter biosynthesis as mediators of the quantitative response to the drug. Subsequently, genetic analysis and metabolite profiling

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Login via your institution

Login via Athens

Password:

Email:

save your password

What happens if I save my password

Forgotten your password

Next Steps

DataCite

- Metadata v. 2.3
- Dublin Core application profile
- Content Service

EZID

- UI redesign
- Automated link checking
- Exposure for citations



By Nicola Whitaker http://www.flickr.com/photos/nicolawhitaker/111009156/

For more information

EZID

EZID application: http://n2t.net/ezid/

EZID website: http://www.cdlib.org/services/uc3/ezid/

DataCite

DataCite Home: http://datacite.org/

DataCite Metadata Schema:

http://schema.datacite.org/meta/kernel-2.2/index.html

DataCite Metadata Search: http://search.datacite.org

Contact EZID Service Mgr: uc3@ucop.edu

Questions?



by Horia Varlan http://www.flickr.com/photos/horiavarlan/4273168957/in/photostream/